SAFETY PRECAUTION

CAUTION:		
The lightening flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to "dangerous voltage" and to prevent from a risk of electric shock.	Warning: To reduce the risk of electric shock, don't open the cabinet. Refer servicing to qualified personnel only.	The exclamation point within an equilateral triangle is intended to alert the user to important operating and maintenance (servicing).

WARNING: The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall not be placed on the apparatus.

WARNING: Do not place naked flame sources, such as lighted candles on the apparatus; otherwise, there is the danger of fire.

WARNING: The unit should be connected to a power supply only of the type descry bed in the operating instructions or as marked on the unit. If you are not sure of the type of power supply (for example: 120 or 230V) to your home, consult your local dealer or local power company.

WARNING: Do not open the cabinet or touch any parts in the inner mechanism. Consult your local dealer for technical service if the opening is required.

WARNING: The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.

WARNING: Take attention to the environmental aspects of battery disposal. The battery of remote control should not be exposed excessive heat such as sunshine, fire or the like.

WARNING: Maintenance man must use the appointed screw in the rear plate.

WARNING: Ensure a minimum distance of 5 cm around the apparatus for sufficient ventilation.

WARNING: Ensure that the ventilation is not impeded by covering the ventilation openings with items such as newspapers, table-cloths, curtains, etc.

WARNING: Use the apparatus only in moderate climates (not in tropical climates).

Note: Do not open the cabinet to avoid the unit direct exposure to radiation.

Unit Cleaning: After the unit power is turned off, you can clean the cabinet, panel and remote control with a soft cloth lightly moistened with a mild detergent solution.

Attachments: Never add any attachments and/or equipment without the manufacturer consent; as such additions may result in the risk of fire, electric shock or other personal injury.

Locating: Slots and openings in the cabinet are provided for ventilation to protect it from overheating. Do not block these openings or allow them to be blocked by placing the STB on a bed, sofa or other similar surface, nor should it be placed over a radiator or heat register.

Power-Cord Protection: Place the power-supply cord out of the way, where it will not be walked on. Please take special attentions to cords at plugs, convenience receptacles and the point where they exit from the unit.

Object and Liquid Entry: Never put objects of any kind into this STB through openings, as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill any liquid on the STB.

Note: Moisture may be formed inside the unit in the following conditions:
When the unit is suddenly moved from a cold environment or an air-condition room to a warm place.
Immediately after a heater has been turned on.
In a steamy or very humid room.
If the moisture forms inside the unit, it may not operate properly. To correct this problem, turn on the power and wait about two hours for the moisture to evaporate.

Parts Replacement: When the unit parts need to be replaced, user should make sure the service technician use the replacement parts specified by the manufacturer or having the same characteristics as the original part. Unauthorized replacement may put the unit in the risk of fire, electric shock or other hazards.

Safety Check: After all the maintenances and repairs are done, user is required to request the service technician to conduct the overall safety check to ensure the machine is in the proper condition.

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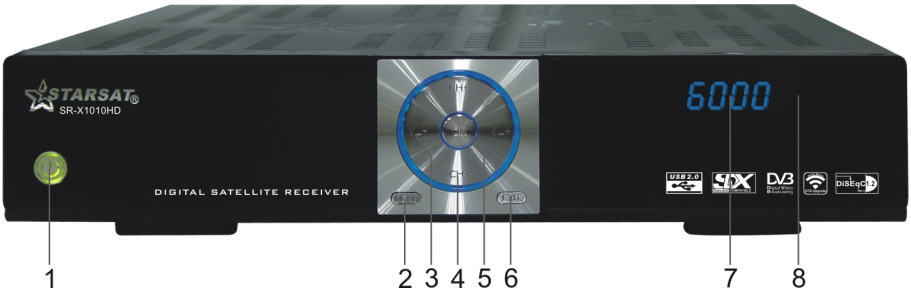
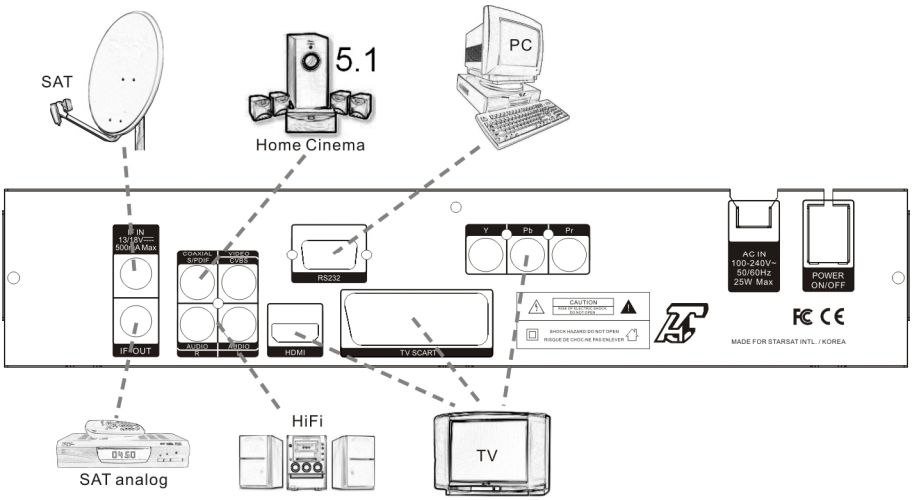
1 Remote Control & Panel Description

1.1 Front Panel Description



1. **POWER:** Is used to switch between the working mode and the standby mode.
2. **MENU:** To enter into the main menu and exit all menus.
3. **VOL+/-:** To change volume to move cursor, change numbers in the menu or to change the choice.
4. **CH+/-:** To change channels or for navigating and changing values in menus.
5. **OK:** To select an item in the menu and confirm it or pop up channel list when no menu.
6. **EXIT:** Use this key return to the viewing mode from any menu function.
7. **Display (4-Digit/7-Segment):** Displays the received channel number while operating and time while in standby mode.
8. **Remote Sensor:** Detects the infrared signals from the remote control unit.

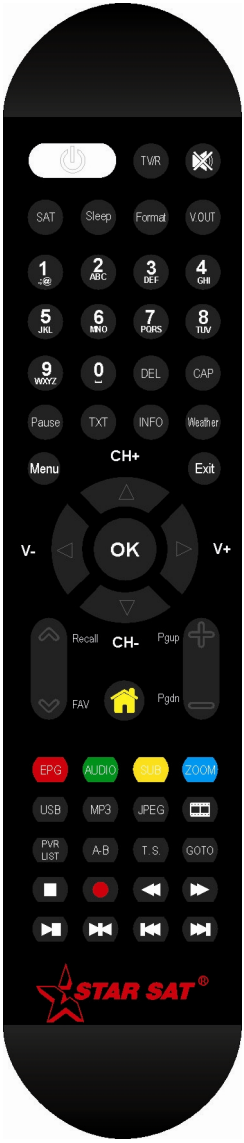
1.2 Rear Panel Description



1. **IF IN:** Satellite input.
2. **IF OUT:** Satellite output for cascading to other devices

   Note: The operation of another receiver at the same time is only possible with limited channel selection.
3. **S/PDIF:** Coaxial output for digital audio (AC3)
4. **VIDEO:** CVBS video output for TV AV in.
5. **AUDIO:** HiFi outputs for stereo set.
6. **RS-232:** Serial Port allowing software upgrades.
7. **HDMI:** HDMI output for the connection to a TV set.
8. **TV SCART:** Output SCART for the connection to a TV set.
9. **YPbPr:** Component Out.
10. **ANT IN:** Antenna input for the terrestrial antenna.
11. **TO TV:** Modulator output for the connection to a TV set.
12. **AC IN:** Mains input cable.
13. **POWER ON/OFF:** Allows to completely switch off the receiver.

1.3 Remote Control Description



Power:	The power key turns the receiver on and off.
Mute:	This key switches the sound on and off.
TV/R:	Selects TV or Radio channels.
Format:	Switch the display mode.
V.OUT:	Switch the video output.
Audio:	Open the Audio Mode window.
SUB:	Used to display the subtitle data.
TXT:	Used to display the Teletext data.
Pause:	To pause video during viewing normal display but audio remains active.
Zoom:	Allows you to magnify a certain area on the images and to enter the Multi-Picture mode.
Sleep:	Sleep function in the viewing mode.
SAT:	This key is used to display satellite list.
FAV:	Change to last favorite channels or selects the favorite channels in the channel list.
Lock:	Lock / Unlock the RCU keys.
EPG:	This key show program information about the selected channel.
Recall (↩):	Toggle between the actual and the last selected channel.
INFO (ℹ):	This key is used to display channel information.
CH▲/▼:	Used to move the highlight bar or change channel up / dn.
Vol◄/►:	Used to move the highlight bar or change volume up / dn.
OK:	The OK key is used to select a program, highlight line or parameter value. It is also used to show the TV/RADIO channel list while watching TV or listening to the RADIO.
Menu:	Used to display the main menu.
Exit:	Use this key return to the viewing mode from any menu function.
Pgup / Pgdn:	Used to move the highlight bar one page at a time on menu. It is also used to change the channel up & down 100 channels.
HOME (🏠):	Used to display the main menu.
Numeric (0-9):	Numeric keys enable direct channel selection.
DEL:	Delete characters to the left of the insertion point.
CAP:	Is used to switch the lower case and capital letter.
USB:	Access directly to the "Media Management" menu.
MP3:	Access directly to the "Media List-MP3" menu.
JPEG:	Access directly to the "Media List-JPEG" menu.
Movie (🎞):	Access directly to the "Media List-Video" menu.
Cal.:	Access directly to the "Calendar" menu.
Weather:	Have no function.
PVR LIST:	Access directly to the "Media List-Record List" menu.
A-B:	Set A to B and repeat the programs between this two points if no any interruption.
T.S.:	you will be asked to "Do you want to time shift?" menu.
GOTO:	Jump to input time program.
■:	Will stop the recorded and want to stop play record.
●:	Will be asked to "Do you want to record?" Menu.
◄◄:	Back the program fast
►►:	Fast forward the program.
►II:	Will stop the program and again will play the program continually.
►I◄:	The screen will record to the an mark point.
I◄◄:	The screen will jump to the prior mark point.
►►I:	The screen will jump to the next mark point.

2. Basic Operations

2.1 Switch on STB

Switch the [Device's Main Power] switch on.

When the STB is first used it will display "Quick Setup" window. you will set Language, First Audio, Second Audio, LNB Power, Antenna Setup and Multi Search.

? **Frequently Asked Question**

Q: The power of my STB is on and it is running in TV mode but the TV screen shows nothing:

A: Make sure the TV set has been set to the correct video input (not the TV channels). For example, if you have connected the unit to the video1 input of the TV set then you need to select the corresponding input of the TV. Mostly it is done with the AV button of the TVs remote control unit.

Q: My STB is running in TV mode but the TV screen shows nothing except one ball and "No Signal".

A: That means the channel you selected has no signal. This can be caused by several reasons:

1. The channel you selected is not from the satellite to which your dish is pointing. Select another channel.
2. The signal of current TV channel is too weak. You can try to change to other channels with a stronger signal. If the problems still exist, please consult your local dealer or installer for technical service.
3. You selected the wrong LNB type in the installation menu or your DiSEqC switch configuration is not correct.

2.2 Standby Mode

1. Press [Power] button to switch from TV/radio mode to standby mode
2. In standby mode press [Power] button again to switch back to TV/radio mode. The last active channel will be showed.
3. To switch off the STB complete press the main power button.

2.3 Mute

1. Press the [Mute] button to mute the sound. On the screen an icon will be displayed to indicate the muted sound.
2. Press the [Mute] button again to restore the sound.

2.4 TV/Radio

In TV mode, press [TV/Radio] to switch to Radio mode. In Radio mode press [TV/Radio] again to switch back to TV mode.

2.5 Format

In TV mode, press [FORMAT] button to display Mode is used to switch the display mode.

2.6 V.OUT

In TV mode, press [V.OUT] button to display Mode is used to switch the video output.

2.7 Audio

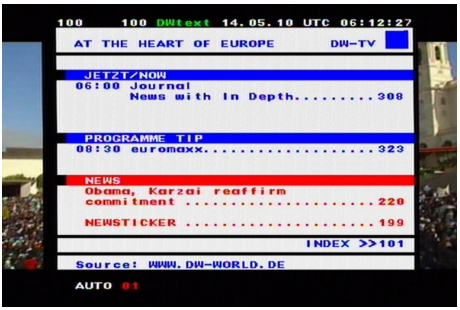
1. In TV mode, press the [Audio] button to open the Audio Mode window.
2. Select the item you want to adjust with [CH▲/▼] and change the value with [VOL◄/►].

2.8 SUB

In “Subtitle Display” menu. Subtitle: Press [VOL◄/►] to select “standard” or “Off”. Press [Vol◄/►] to select languages. If the current channel has subtitle information, it will be displayed if this function is “On”. If this function is “Off” subtitles won’t be displayed.

2.9 TXT

1. Press [TXT] button in TV mode to open the teletext page. This service is depending on the support of the channel provider.
2. If the channel does not support teletext information, it will show “No Teletext Data” on the screen.



2.10 Pause

1. In playing mode, press [PAUSE], the picture will be paused, but the sound of the channel will still continues.
2. Press [PAUSE] again, the screen's picture will skip over to the current playing picture, and the sound of the channel will corresponding playing.

2.11 Zoom

In TV mode, press [Zoom] to enter the "MULTI" menu.

1. The [Zoom] key allows you to magnify a certain area on the images and the current screen will show.
2. Press [Zoom & OK] key again, the image will enlarge rotate as x1, x2, x4, x6, x8, x12, x16.
3. In "x2 ~ x16" image, using [CH▲/▼ / VOL◄/►] keys to move the image center area you want to see.
4. In zoom mode, press [Exit] to close "Zoom" window.

2.12 Sleep

Press [Sleep] button in TV mode to set the sleep timer. You will see “Sleep TIME OFF / Sleep TIME 10 ~ Sleep TIME 120”.

If you set a sleep time, the system will change to standby mode after the chosen time period.

2.13 SAT

1. In TV mode, press [SAT] button to open satellite list and select there, then press [OK] to open “TV Channel List” menu, select channel of the current.
2. In satellite list, press [Page Up/Down] to switch directly between satellites.

2.14 FAV

In TV mode press the [FAV] button to display the Favorite Group window.

1. In the Favorite Group window you can select the desired favorite channel with [CH▲/▼] and confirm it with [OK] to switch to it. In bigger groups you can navigate with [Pgup/ Pgdn].
2. Press [VOL◄/►] to switch Favor Group 1 ~ Favor Group 5.
3. Press [Exit] to close the Favorite Group window.

? **Frequently Asked Question**

Q: Why the screen displays "No favorite program!" after pressing the [Favorite] button?

A: No channels have been assigned to a Favorite Group yet. You can do this in the channel menu.

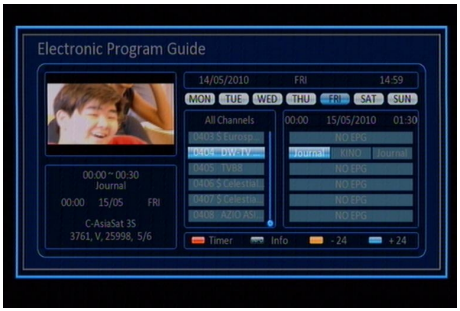
2.15 Lock

Press [Lock], then current keys on RCU are locking; Press [Lock] key again, then RCU keys will be unlocked.

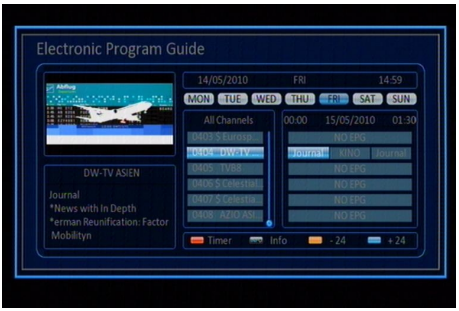
2.16 EPG

The STB supports Electronic Program Guides (EPG) to give you information about the actual programs of certain channels like event name, subtitle, description, start and finish time. This feature is depending on the service of the channel provider.

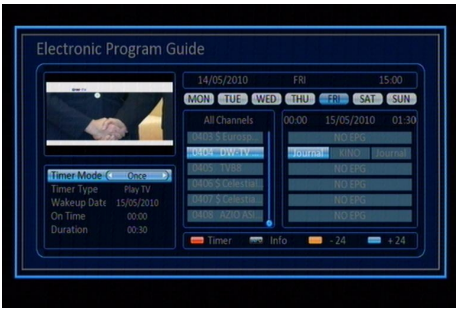
Press [EPG] to open the EPG window.



1. You can move the highlighted channel with [CH▲/▼] and preview the highlighted program in the preview window. with [Vol◄/►] and display the event's detailed description.
2. Press the [INFO] button in the EPG menu to display the detailed information of the actual event in the selected channel.



3. Press the [Red] button in the EPG menu to program a timer with the actual events data.



4. Press the [Green / Yellow] to select date.
5. To close the EPG menu press [Exit / Menu].

2.17 Recall (↻)

Pressing the [Recall] button allows you to toggle between the actual and the last selected channel.

2.18 INFO (i)

In TV mode, press [INFO] button can open information screen, in the window shows the parameters of current channel.

2.19 CH▲/▼

In TV/Radio mode press [CH▲/▼] to change channel.

2.20 V◄/►

In TV/Radio mode, press [Vol◄/►] to adjust volume.

2.21 OK

1. In TV mode press [OK] button to open the Channel List window.
2. Press [CH▲/▼] to switch channel and confirm it with [OK] to switch to it.

3. The color buttons offer further functions to manage the channel list.

Ø Press [**Red**] to open the sort window. Press [CH▲/▼] to select and [OK] to confirm your choice.

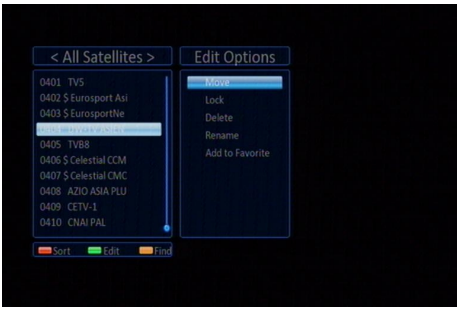
The ways of sorting are:

- Default: Sort channel factory default.
- FTA/CAS: Sort channel by free and scrambled sequence. Free channels will be listed first and scrambled channels behind in the channel list.
- Lock: Unlocked channels are listed first end locked channels at the end.
- Name (A-Z): Sorting in Alphabetical order, ignoring "$" symbol.
- Name (Z-A): Sorting in Alphabetical order, ignoring "$" symbol.

Ø Press [**Green**] to open the edit window.

You can Move, Lock, Delete, Rename and Add to Favorite.

Press [**MENU**] to leave the channel editing. The system will ask you to confirm the saving of the changes you made.



Ø Press [**Yellow**] button to open the Find window. You can use this feature to find channel by their names.

2.22 MENU

Press [Menu] button to enter or exit the current menu.

2.23 EXIT

Press [Exit] button to exit the current menu.

2.24 PGUP / PGDN

In menu list, Press [PGUP / PGDN] on the RCU to jump between the list by pages.

2.25 HOME (🏠)

Used to display the main menu.

This key can allow going to visit the main menu directly from any submenu.

2.26 Channel Number

In TV mode you can enter the channel number directly with your remote control unit and confirm the number with the OK button to change to the desired channel.

2.27 DEL

While editting the text through keyboard, use this key to delete characters to the left of the insertion point.

2.28 CAP

Is used to switch the lower case and capital letter during editting the text through keyboard.

2.29 USB

In TV mode, press [USB] button to access directly to the “Media Management” menu.

2.30 MP3

In TV mode, press [MP3] button to access directly to the “Partition” menu. Press [CH▲/▼] to select the wanted item partition, press [OK] to confirm it.

2.31 JPEG

In TV mode, press [JPEG] button to access directly to the “Partition” menu. Press [CH▲/▼] to select the wanted item partition, press [OK] to confirm it.

2.32 Movie (🎞)

In TV mode, press [Movie] button to access directly to the “Video” menu. Press [CH▲/▼] to select the wanted item partition, press [OK] to confirm it.

2.33 Cal.

In TV mode, press [USB] button to access directly to the “Calendar” menu.

2.34 Weather

Have no function.

2.35 PVR LIST

In TV mode, press [PVR LIST] button to access directly to the “Record List” menu.

2.36 A-B

In recorded mode, during your watching, press [A-B] button to set up a starting point A, then set another point B by press [A-B] button again after a while, then it will start to playback from A to B and repeat the programs between this two points if no any interruption.

2.37 T.S.

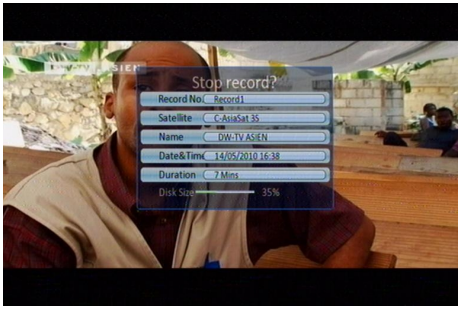
In TV mode, press [T.S.] button if you want to time shift.

2.38 GOTO

When you play the recorded channels, press [Goto] button, the “Jump to” message box will pop up, input the Time and press [OK], then the receiver will back to the input time point and play the program from that point continually. (If the input time is more than the recorded time, the picture will back to last picture, please noted.)

2.39 ■

When you play a recorded program, press [■] button will stop the recorded channel playing and back to the Record Management menu. When you are recording a program, press [■] button you will be asked to “Select the record to stop!” menu, press [■] to confirm it.



2.40 ●

In TV mode, press [●] button you want to record, press [●] to confirm it.

2.41 ◄◄/►►

When you play a recorded channel, press [◄◄] button to back the program fast and Press [►►] to fast forward the program.
Selection: 2x, 4x, 8x speed .

2.42 ►II

When you play a current or recorded program, press [►II] will stop the program, press [►II] again will play the program continually, And Time shift is started by this key.

2.43 ►I◄

Press [►I◄] button when you play a marked program, the screen will record to the marked point.

2.44 I◄◄/►►I

Press [I◄◄/►►I] button when you play a marked program, the screen will jump to the marked point.

1. **Jump Step Value:** “1 Mins / 3 Mins / 5 Mins / 10 Mins / 15 Mins” jump.
2. **Jump Step Value:** Record the an mark point.

2.45 FAV

1. In TV mode press the [FAV] button to display the Favorite Group window on the screen as the picture beside shows.

2. In the Favorite Group window you can select the desired favorite channel with [CH▲/▼] and confirm it with [OK] to switch to it. In bigger groups you can navigate with [PGUP/ PGDN].
3. With [VOL◄/►]. You can select different Favorite Groups.
4. Press [Exit] to close the Favorite Group window.

? **Frequently Asked Question**

Q: Why the screen displays "No Favorite Channel" after pressing the [Favorite] button?

A: No channels have been assigned to a Favorite Group yet. You can do this in the channel menu.

2.46 LNB Short

When LNB is short, it will notify user on screen "LNB Short!" Please check your cables and connections for shorts. When the short is removed the warning message will disappear.

3 Menu Operations

Turn on you TV and receiver.

The pop-up menu for language selection will appears. Select one language and press the [OK] button to proceed.

Press the [MENU /] button to display the main menu. And menu is a field of text shown on the TV screen, the selected item is generally become blue background.

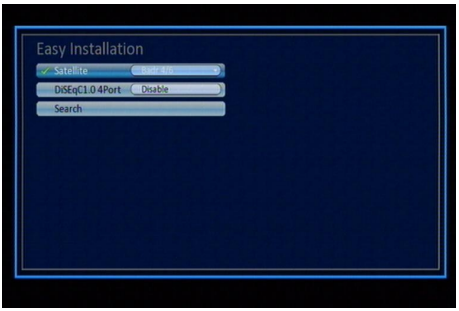
Use the [CH▲/▼ / Vol◄/►] button you can move, upwards / downwards and leftwards / rightwards s in the menu.

When you have reached the required subject menu, press the [OK] button to confirm your selection.

When you want to return to the previous mode, press the [EXIT] button.

3.1 Easy Installation

After selecting the easy installation menu you can see the window like below.
In “easy Installation” menu;



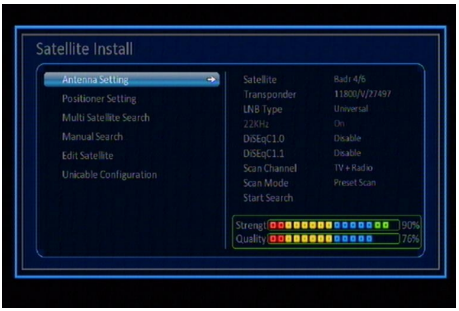
Press [CH▲/▼] to select menu items among Satellite, DiSEqC1.0 4Port and Search, Press [OK] to enter the selected item

- In the “Satellite” item press [OK] to select the “satellite list” to select directly with [CH▲/▼], press [OK] to confirm it.
- In the “DiSEqC1.0” item press [Vol◄/►] to select the “DiSEqC1.0 list” to select directly with [CH▲/▼], press [OK] to confirm it.
- Search: Press [OK] to start scanning. In the lower part of the window the progress of scanning and the found channels are displayed.

3.2 Satellite Install

After selecting the Satellite Install menu you can see the window like.

In “Satellite Install” menu;



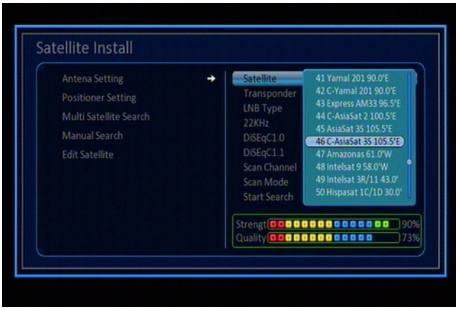
Press [CH▲/▼] to select menu items among Antenna Setting, Positioner Setting, Multi Satellite Search, Manual Search, Edit Satellite，Unicable Configuration.

↵ Press [OK] to enter the selected item.

→ Press [Vol►] to enter the selected item.

3.2.1 Antenna Setting

In “Antenna Setting” menu;

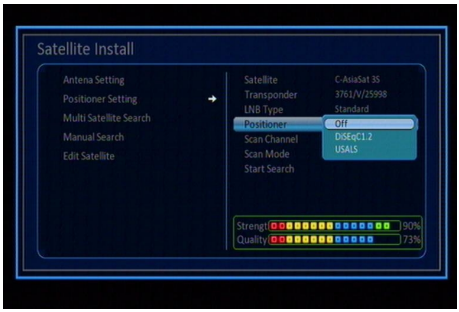


1. In the “Satellite” item press [OK] to select the “satellite list” to select directly with [CH▲/▼], press [OK] to confirm it.
2. In the “Transponder” item press [OK] to select the “Transponder list” to select directly with [CH▲/▼], press [OK] to confirm it.
3. In the “LNB Type” item press [OK] to select the “LNB Type list” to select directly with [Vol◄/►], press [OK] to confirm it.

4. In the “22K” item press [OK] to select the “ON” & “Off” to select directly with [CH▲/▼], press [OK] to confirm it. The 22KHz signal is used in KU universal LNBs to change between low band and high band.
5. In the “DiSEqC1.0” item press [OK] to select the “DiSEqC1.0 list” to select directly with [CH▲/▼], press [OK] to confirm it.
6. In the “DiSEqC1.1” item press [OK] to select the “DiSEqC1.1 list” to select directly with [CH▲/▼], press [OK] to confirm it.
7. In the “Scan Channel” item press [OK] to select the “TV + radio channels” or “just TV channels” or “just radio channels” to select directly with [CH▲/▼], press [OK] to confirm it.
8. In the “Scan Mode” item press [OK] to select the “Auto Scan” or “Preset Scan” or “NIT Search” to select directly with [CH▲/▼], press [OK] to confirm it.
9. Search: Press [OK] to start scanning. In the lower part of the window the progress of scanning and the found channels are displayed.

3.2.2 Positioner Setting

Basically the operation of “Positioner Setting” is same as “Antenna Setting”, except that in the positioner.



In the “Positioner” item press [OK] to select the “Off” or “DiSEqC1.2” or “USALS” to select directly with [CH▲/▼], press [OK] to confirm it.

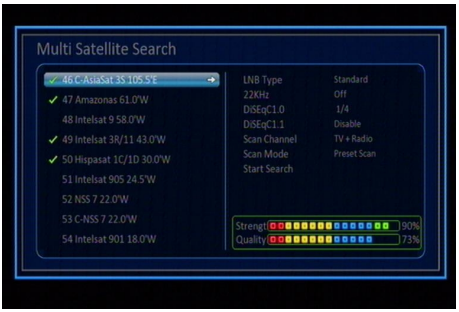
! Notice: When you select “DiSEqC1.2 or USALS”, “DiSEqC1.0” and “DiSEqC1.1” items will be disabled.

3.2.3 Multi Satellite Search

After selecting the Mufti Satellite Search menu you can see the window like.

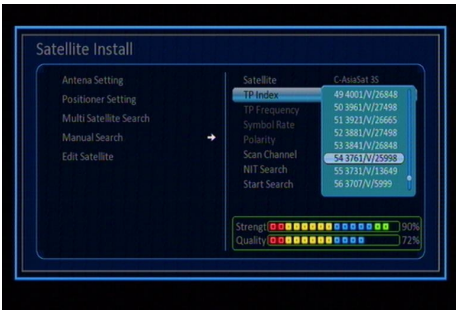
You can select several satellites in this menu to start scanning.

Basically the operation of “Multi Satellite Search” is same as “Antenna Setting”.



3.2.4 Manual Search

1. In the “Satellite” item press [OK] to select the “satellite list” to select directly with [CH▲/▼], press [OK] to confirm it.
2. In the “TP Index” item press [OK] to select the “TP Index” to select directly with [CH▲/▼], press [OK] to confirm it.
3. “TP Frequency”, “Symbol Rate”, “Polarity” the parameters will be displayed. These parameters can not be modified.
4. In the “Scan Channel” item press [OK] to select the “TV + radio channels” or “just TV channels” or “just radio channels” to select directly with [CH▲/▼], press [OK] to confirm it.
5. In the “NIT Search” item press [OK] to select the “Off” or “No” to select directly with [CH▲/▼], press [OK] to confirm it.
6. Search: Press [OK] to start scanning. In the lower part of the window the progress of scanning and the found channels are displayed.



3.2.5 Edit Satellite

After selecting the Edit Satellite menu you can see the window like.
Press [Vol◄/►] to switch between “Satellite List” and “TP List”.

Satellite List

1. Press [Red] button to enter edit satellite menu. You can edit the satellite’s name and its longitude.
2. Press [Green] button to open the “Add satellite” window.
3. After pressing [Yellow] button you will be asked “Are you sure to delete?”. Select “OK” to delete the marked satellite. Select “No” to cancel the operation.
4. Press [Blue] button to place a lock icon behind the name of the highlighted channel. Then the marked Satellite and the corresponding channels will be locked and will be displayed again after password has been entered, before you leave existing menu please confirm if you want to save the changes

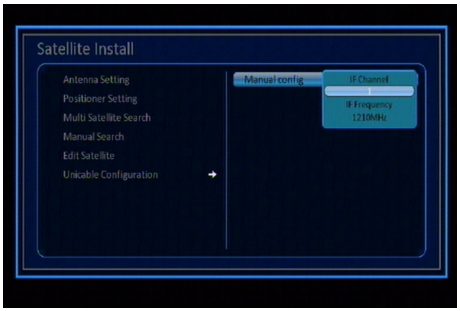
TP List

1. Press [Red] button to enter edit TP menu. You can edit the TP Transponder, symbol rate and its polarity.

2. Press [Green] button to open the “Add TP” window.
3. After pressing [Yellow] button you will be asked “Are you sure to delete?”. Select “OK” to delete the marked TP. Select “No” to cancel the operation.
4. After press [Blue] button you will be asked “Are you sure to delete?”. Select “OK” to delete the all TP. Select “No” to cancel the operation.

3.2.6 Unicable Configuration

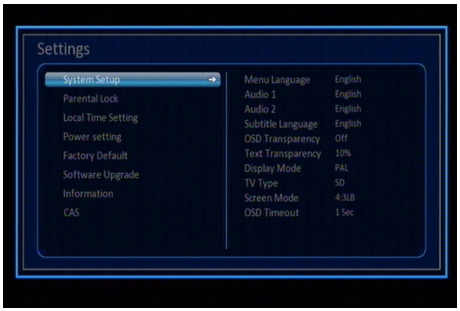
In “Unicable Configuration” menu;



1. Manual Config: Press [OK] and you will see below menu.
   Here you need to know the IF Channel and IF Frequency of the Unicable LNB you are using, then press [Vol◄/►] to choose the IF Channel and IF Frequency accordingly, then press “exit” for saving data.

3.3 Settings

After selecting the Settings menu you can see the window like.
In “Settings” menu;



Press [CH▲/▼] to select menu items among System Setting, Parental Control, Local Time Setting, Power Setting, Factory Default, Software Upgrade, Information and CAS.

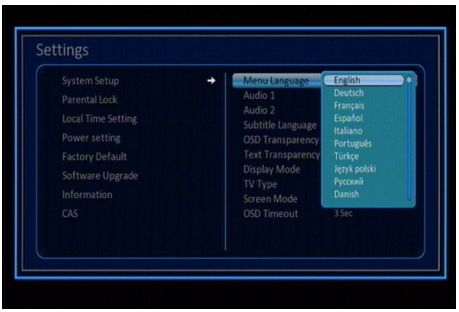
↵ Press [OK] to enter the selected item.

→ Press [Vol►] to enter the selected item.

3.3.1 System Setting

In “System Setting” menu;

1. In the “menu language” item press [OK] to select directly with [CH▲/▼], press [OK] to confirm it. The selection of language include: English, German, French, Spanish, Italian, Portuguese, Turkish, Polish, Russian, Danish, Greek, Hungarian, Dutch, Arabic, Farsi.
2. First Audio: Some channels offer more than one audio language. This function allows you to set the preferred audio language for those channels. If a channel offers the same audio language as the “First Audio” you set the system will play this audio language as default. If the channel does not offer this audio language then the system will compare the offered languages with the second audio language. The selections of audio language include: English, German, French, Spanish, Italian, Portuguese, Turkish, Polish, Russian, Danish, Greek, Hungarian, Dutch, Arabic, Farsi.



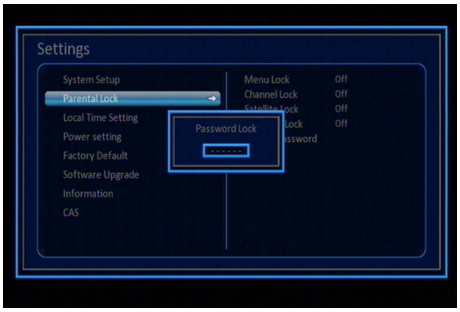
3. Second Audio: If the channel has no audio language that corresponds with “First Audio” but with “Second Audio” the system will play the second audio language as default. If no audio language corresponds with the “Second Audio” then the default language of the current channel will be played instead. The selections of audio language include: English, German, French, Spanish, Italian, Portuguese, Turkish, Polish, Russian, Danish, Greek, Hungarian, Dutch, Arabic, Farsi.
4. Subtitle Language: In “OSD Setting” menu, use [OK] to select directly with [CH▲/▼] to select “On” or “Off”. If the current channel has subtitle information, it will be displayed if this function is “On”. If this function is “Off” subtitles won’t be displayed. The selections of subtitle language include: English, German, French, Spanish, Italian, Portuguese, Turkish, Polish, Russian, Danish, Greek, Hungarian, Dutch, Arabic, Farsi.

5. OSD Transparency: With this parameter you can set the transparency of the menus. Press [OK] to select directly with [CH▲/▼] select the value between 10%, 20%, 30%, 40% and “Off” (means no transparency function).
6. Text Transparency: With this parameter you can set the transparency of the teletext list. Press [OK] to select directly with [CH▲/▼] select the value between 10%, 20%, 30% and “Off” (teletext list no transparency function).
7. Display Mode is used to switch the display mode. You can select from PAL / NTSC. Press [OK] to select directly with [CH▲/▼] to switch the desired mode.
8. TV Type is use for switching the screen aspect ratio mode. Now we provide below options: HD / SD. You can Press [OK] to select directly with [CH▲/▼] key to select each mode circularly.
9. Aspect Mode is used to switch the screen aspect ratio mode. You can select the needed mode from Auto / 4:3 PS / 4:3 LB / 16:9 with [OK] to select directly with [CH▲/▼] key.
10. OSD timeout is used to switch the screen marked time. Press [OK] to select directly with [CH▲/▼] select the value between 1 Sec ~ 10 Sec.

3.3.2 Parental Control

In “Parental Control” menu; you can set a password for anyone who wishes to operate the “Installation” menu. You can also set the password to lock channels. Below you find how to set and change the password.

NOTE: The default password is 000000.

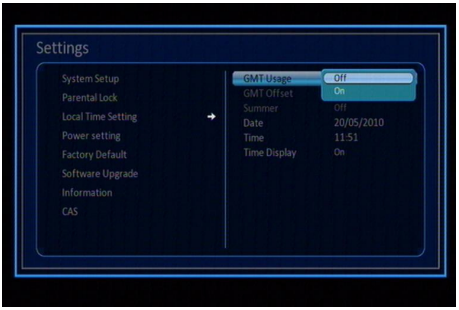


1. Menu Lock: If Menu Lock is set to “On” then you need to enter the password every time you want to open the menu. If set to “Off” then you can open the menu without entering the password first.
2. Channel Lock: If set to “On” then you need to enter the password before you can see those channels which have been marked as locked channels in the channel menu. If set to “Off” then even those channels can be selected without entering the password first.

3. Satellite Lock: If set to “On” then you need to enter the password before you can see those channels which have been marked as locked Satellite in the Satellite menu. If set to “Off” then even those channels can be selected without entering the password first.
4. Scramble Lock: If set to “On” then you need to enter the password before you can see those “$” symbol channels. If set to “Off” then even those channels can be selected without entering the password first.
5. Change Password: Here you can change the existing password. You should do this after you set up the receiver the first time and every time when you think that your password is known by unauthorized persons. To change the password enter the new password in the “New Password” item and repeat the same one in the “Confirm Password” item. If the passwords are not identically then you will see a warning message “Failed”. If you entered the same new password in both fields then you will see the message “succeed”. From now on you need to use the new password to open locked menus or locked channels.

3.3.3 Local Time Setting

In “Local Time Setting” menu;

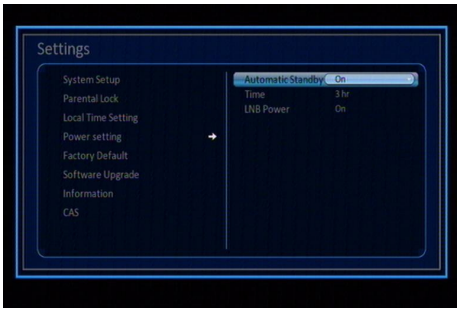


1. GMT Usage: This item is used to set the time by using the time signal from the satellite. Press [OK] to select directly with [CH▲/▼] to change the setting.
2. The “GMT Offset” item is only available when “GMT Usage” is set to “On”. Press [OK] to select directly with [CH▲/▼] to set the “GMT Offset” value.
3. Summer: Press [Vol◄/►] to switch this function “On” or “Off”
4. “Date” and “Time” items are only available when the “GMT Usage” is set to “Off”. Press [CH▲/▼] to select one item and use number buttons to input time and date directly.
5. Time Display: Press [OK] to select directly with [CH▲/▼] to switch this function “On” or “Off”.

NOTE: If the current channel provides the correct time information, you will see the current time after you entered “Local Time Setting” menu. If the channel doesn’t provide time information, you have to input the date and time information manually. The most channels support the time signal

3.3.4 Power Setting

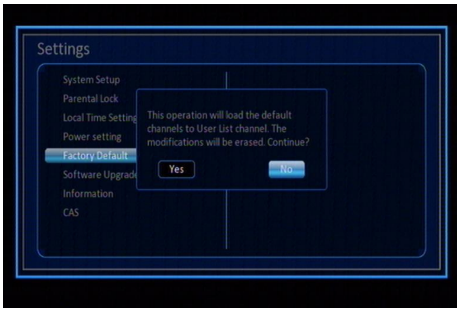
In “Power Setting” menu;



1. Automatic Standby: Press [OK] to select directly with [CH▲/▼] to select “Off” and “On”.
2. The “Time” item is only available when “Automatic Standby” is set to “On”. Press [OK] to select directly with [CH▲/▼] to select “1hr” ~ “8hr”.
3. LNB Power: If your receiver is connected to the LNB directly then you need to set the LNB Power to “On”. If your receiver is connected to a multi switch (SMATV signal distribution system) then it may be that you don’t need to provide the power to the LNB. But since this is depending on the kind of installed distribution system we recommend you to contact your installer or to refer to the user manual of this system to get the correct information.
   You also just can change this setting and check if you still can receive the channels. If the LNB Power is off and you still can see all channels then we recommend this setting.
4. Press [Exit] button to leave this menu.

3.3.5 Factory Default

When you press [OK] on the “Factory Default” item:

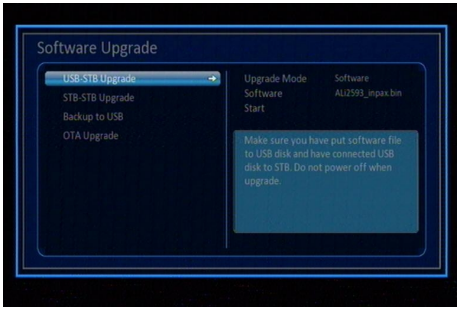


A dialogue box will occur where you need to enter the password.
After you input the correct password a warning message will be displayed like the one beside.
If you select “Yes” then all changes you made will be reset to default values. Make sure you really want to do this!
Press [Exit] in both steps will close the window without resetting the receiver.
NOTE: The default password is 000000.

3.3.6 Software Upgrade

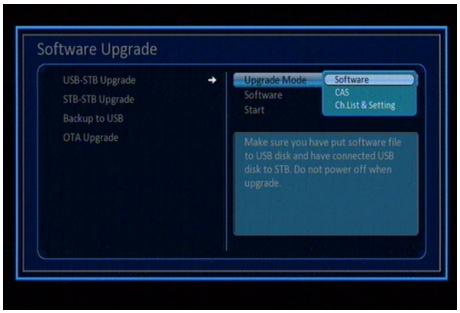
In “Software Upgrade” menu;

1. Press [CH▲/▼] to select the wanted item among USB-STB Upgrade, STB-STB Upgrade, Backup to USB and OTA Upgrade.
2. Press [OK] to enter the selected item.



3.3.6.1 USB-STB Upgrade

This option allows updating the software of the receiver with the received data from a USB memory device. To do it, connect a USB memory device to the receiver and accede to this menu option.



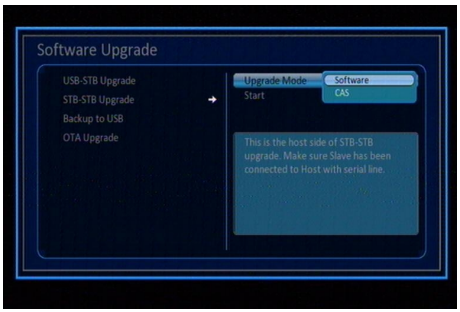
1. Upgrade Mode: the mode of the upgrade to be chosen, Press [OK] to select directly with [CH▲/▼] to select Software, CAS and Ch.List & Setting.
2. In the “Software” item press [OK] to open the “USB list” to select directly with [CH▲/▼], and press [OK] to finish the selection.
3. Start: Press [OK] to start upgrade.
4. Once the file has been loaded, it requires the conformity to end the upgrading process, writing into the receiver “Are you sure to burn flash?”. Press [OK] to upgrade the receiver. In case during the reading of the file, it is corrupted or it would be a not appropriated for this model of receiver, an alert message would appear “Error reading the USB disk”.
5. After pressing [OK] the receiver will write into the Flash memory, and it will reboot to end the upgrading process.

NOTE: The upgrade file is the binary file, *.bin. Only the files, which extend name is bin, would be displayed. User need put the upgrade file under root of USB card.

3.3.6.2 STB-STB Upgrade

This function allows you to upgrade the software of the receiver. This can be done from PC to receiver or from a master receiver to a slave receiver.

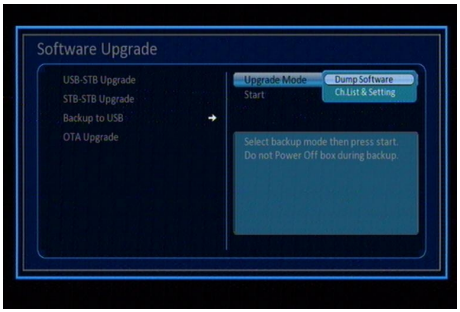
1. Connect master receiver or PC to the slave receiver via serial interface (0-Modem cable). Enter the “Software Upgrade” menu of the master receiver and Press [OK] to select directly with [CH▲/▼] to change the upgrade mode. Upgrade modes include: Software and CAS.
2. Switch on the slave receiver.
3. Mark “Start” on the master receiver and press [OK] to start upgrade.
   Wait until the display on the front panel shows “-END”. Then switch off the receiver and on again. Now the new software is used.
4. Press [Exit] to save the setting without upgrade.



3.3.6.3 Backup To USB

This function allows you Dump Software and Ch.List & Setting from the receiver to external hard drives.

1. Press [OK] to select directly with [CH▲/▼] to change the backup mode. Backup mode include: Dump Software and Ch.List & Setting.
2. Mark “Start” on the and press [OK] to start Backup.
3. Press [EXIT] to save the setting without Backup.



3.3.6.4 OTA Upgrade

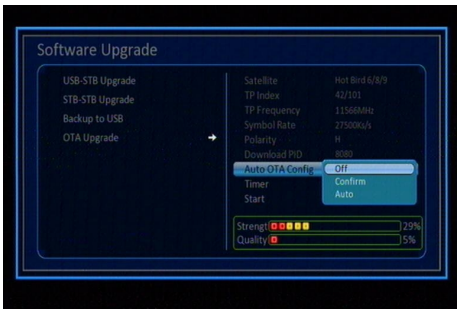
This function can upgrade the software of your receiver through data sent by a satellite.

1. Auto OTA Config: Press [OK] to select directly with [CH▲/▼] to Select the type of upgrade you have Off, Auto and Confirm.

   Off: Off auto OTA upgrade.

   Auto: Presetting timer mode and the system could upgrade automatically in standby mode.

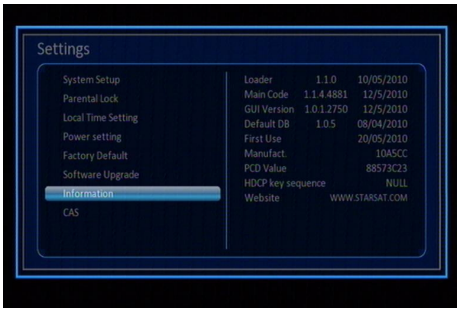
   Confirm: Presetting timer mode, select confirm, then the system will detect if new version software exist in standby mode and will allow OTA upgrade upon getting confirmation from user.



2. Time: The “Time” item is only available when “Auto OTA Config” is set to “Auto” and “Confirm”. Press [OK] to set the “Time” menu.
3. Start: Select the Software, User Interface and Default DB, Then select “Start” and press [Enter] to begin the download of the upgrade. This may need about 30 minutes. Therefore we suggest using of this function only if you don’t intend to watch TV during this time.

3.3.7 Information

When you select the “Information” menu you will see a screen like beside.
On the right of the screen displays data about the current system.



3.3.8 CAS

In “CAS” menu;

CA

In this option, you can find information about the conditional access system. If there is no card or it is placed incorrectly, information about “No card” &“Unknown” will be showed on the screen. With a FELEC-CAS card, information about the card will be showed.

Note: Card must be inserted with chip in upper side.

3.4 Calendar

After selecting the Calendar menu you can see the window like.

In “Settings” menu;

The color buttons offer further functions to manage.

Calendar

Press [**Red**] to Select the Calendar and Timer.

Press [**Green**] to open the Month window. Press [CH▲/▼ / VOL◄/►] keys to select, press [OK] to confirm it.

Press [**Yellow**] to open the Year window. Press [CH▲/▼ / VOL◄/►] keys to select, press [OK] to confirm it.

Timer

Press [**Red**] to Select the Calendar and Timer.

To add more, press the [**Green**] button.

- Ø Timer Mode: Select how often the timer is running: Once, Daily, Weekly, Monthly and Yearly.
- Ø Timer Service: Select between Play TV, Play Radio and Auto OTA Config.
- Ø Wakeup Channel: Press [OK] to enter the channel list, and select the channel you want to see with [CH▲/▼], press [OK] to confirm it.
- Ø Wakeup Date: Use number buttons to input your wakeup date.
- Ø On Time: Use number buttons to input your wakeup time. If date and time are reached then no matter if the system is in standby mode or in playing mode, it will automatically switch to the channel you set and start to play.
- Ø Duration: Here you can set the time you want to see or play this channel. When the time is reached, whenever the system is in standby mode or playing a channel, the system will automatically switch to the channel you select and play the channel within the duration time you set. The minimum duration unit is one minute. After the duration time, the system will automatically switch to Standby mode.
- Ø Press [Exit] button to close the find window “Do you want to save?” and brings you back to the timer menu.

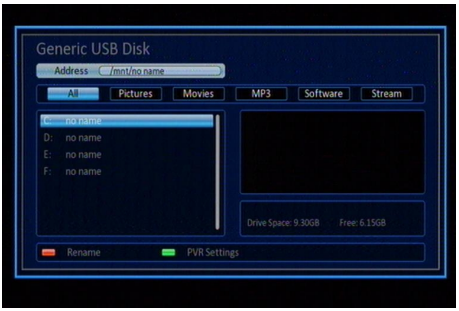
  If it is duplicated with the time zone that was already registered at a reservation list, the alarm message appears which it is not able to register. In this case, you must register a reservation for other time zone.

To edit time, press the [**Yellow**] button.

Press the [**Blue**] button to delete the reservation.

3.5 USB

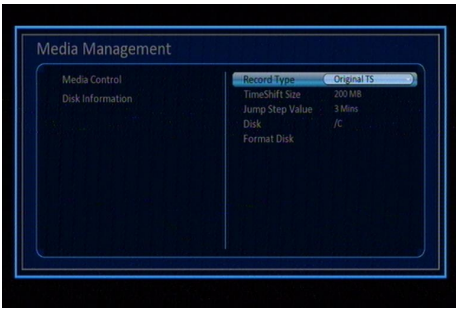
After selecting the USB menu you can see the window like.
In “USB” menu;



Press [Vol◄/►] keys select the All, Pictures, Movies, MP3, Software and Stream.
Press [CH▲/▼] to select the wanted item partition.
Press [**Red**] button to open the “Rename” window like showed. Press [CH▲/▼ / VOL◄/►] keys to select the leading character of the partition name and press [OK] to confirm it.
Press [**Green**] button to open the “Media Management” window like showed. Press [CH▲/▼] to select the wanted item among Media Control and Disk Information.

Media Control

1. Record Type: Press [OK] to select directly with [CH▲/▼] to switch between Original TS and MPEG.
2. Reserved TMS Size: Press [OK] to select directly with [CH▲/▼] to switch between “0 MB / 200 MB and 500 MB”.
3. Jump Step Value: Press [OK] to select directly with [CH▲/▼] to switch between “1 mins / 3 Mins / 5 Mins / 10 Mins / 15 Mins”. “The value control the step of I◄◄/►►I operation.”
4. Disk: Press [Vol◄/►] to switch between /C /D.....
5. Format Disk: If you want to delete the hard disk totally, you can do it with the [OK] Button Format and the hard disk will be completely erased.
   Caution: This process will delete also saves you have made with Backup tools.



Disk Information

When you select the “Disk Information” menu you will see a screen like beside. The screen displays data about the current HDD.

Edit

All, Pictures, Movies, MP3, Stream, Basically the operation of is same as.

Press [Vol◄/►] keys select the All, Pictures, Movies, MP3, Software and Stream.

Press [CH▲/▼] to select the selected item.

The color buttons offer further functions to manage.

Rename

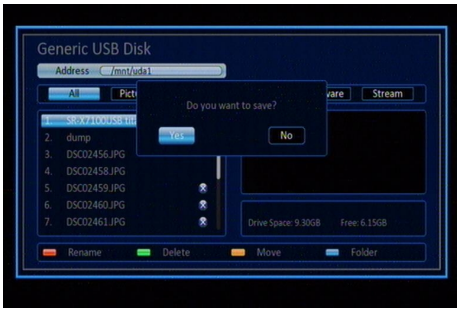
Press [Red] button to open the “Rename” window like showed beside. Press [CH▲/▼] / [Vol◄/►] keys to select the leading character of the channel name and press [OK] to confirm it.

After entering the character(s) highlight “OK” in the window and press [OK] on the RCU.

Press [Exit] button to close the find window and brings you back to the Record list.

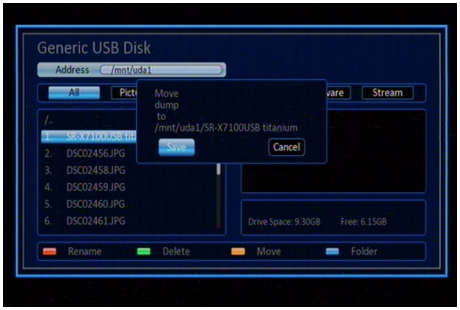
Delete

Press [Green] button to mark a “mp3 / image / video” for deleting. Marked “mp3 / image / video” will be deleted after you confirm to save the changes when you leave this menu.



Move

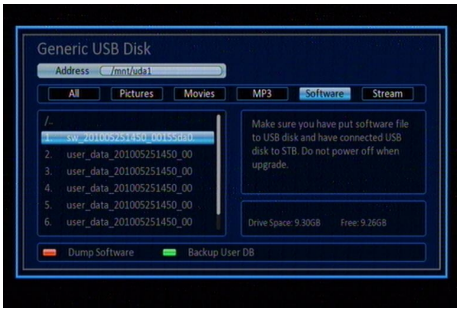
Press [Yellow] button to show a moving icon behind the “mp3 / image / video / folder” name.
Move the “mp3 / image / video / folder” to the desired folder list with [CH▲/▼]. Press [Yellow] to confirm the position.



Folder

Press [Blue] button to open the “New Folder” window like showed beside. Press [CH▲/▼] / [Vol◄/►] keys to select the leading character of the folder name and press [OK] to confirm it.
After entering the character(s) highlight “OK” in the window and press [OK] on the RCU.
Press [Exit] button to close the find window and brings you back to the all list.

In “Software” menu;
Press [CH▲/▼] to select the selected Software.



Press [**Red**] keys to Dump Software the receiver to external hard drives.
Press [**Green**] keys to updating the software of the receiver with the received data from a USB memory device.

3.6 Record

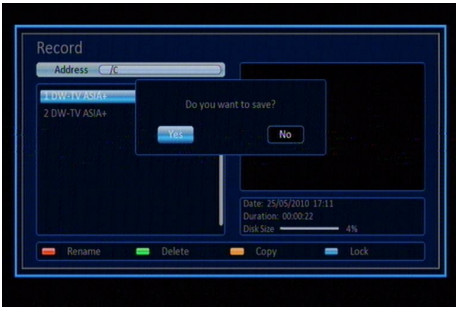
After selecting the Record menu you can see the Access directly to the "Record" menu.
In “USB” menu;

[Rename]

1. Press [Red] button to open the “Rename” window like showed beside. Press [CH▲/▼] / [Vol◄/►] to select the leading character of the channel name and press [OK] to confirm it.
2. After entering the character(s) highlight “OK” in the window and press [OK] on the RCU.
3. Press [Exit] button to close the find window and brings you back to the Record list.

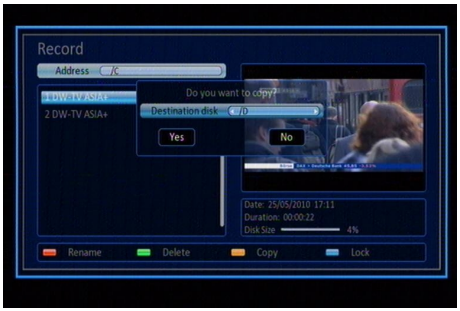
[Delete]

Press [Green] button to mark a “mp3 / image / video” for deleting. Marked “mp3 / image / video” will be deleted after you confirm to save the changes when you leave this menu.



[Copy]

In channel Record menu, press [Yellow] button copy the recorded programme to another disk. Press [Vol◄/►] to switch select copy path, Select “OK” to add all image. Select “Cancel” to cancel the operation.



[Lock]

In channel Record menu, press [Blue] button to place a lock icon behind the name of the highlighted Record. Then the marked record will be locked and will be displayed again after password has been entered, before you leave existing menu please confirm if you want to save the changes

3.7 Photo

After selecting the Photo menu you can see the access directly to the "Photo" menu.
Basically the operation of “Photo” is same as “USB”.

3.8 Music

After selecting the Music menu you can see the access directly to the "Music" menu.
Basically the operation of “Music” is same as “USB”.

3.9 Movie

After selecting the Movie menu you can see the access directly to the "Movie" menu.
Basically the operation of “Movie” is same as “USB”.

4 Troubleshooting

There may be various reasons behind receiver problems. Check the receiver according to the procedures described below. If you can't solve your problem even after following the troubleshooting procedures, please contact the dealer, Do not open the receiver cover, it may cause a dangerous situation.

The front panel doesn't display any message	The power cord is not plugged in	Check that the power cable is plugged in to the wall outlet
No picture or sound	Wrong connection of the audio / video output of the receiver to TV	Connect the audio / video output of the receiver to TV correctly
	Wrong connection fo the satellite antenna	Connect the antenna cable correctly
	No or bad signal message appears	Check other device connected between antenna and the receiver, or adjust the antenna position
	Audio muting	Press the MUTE button
	TV power	Turn TV on
No picture	The receiver can't receiver the signal	Check the antenna cable, replace the cable' or connect the cable to the receiver tightly
	Incorrect values of some tuner parameters	Set the values of tuner parameters correctly. Refer to the installation menu
No or bad signal	The UHF Antenna is not pointing	Adjust the antenna
	Signal too strong	Connect the signal attenuator to the signal input
	Antenna is too small	Change to a larger antenna
The remote controller does not operate	The batteries of the remote controller are not inserted or exhausted	Check whether the batteries are inserted correctly in your remote controller. Check and replace the batteries of the remote controller
Poor picture quality	Signal loss cable	Change the antenna power in antenna menu
Less channels in scanning		

5 Technical Specification

VIDEO

Decoding	MPEG-4 & MPEG-2 & MEPG-1 compatible
Bit rate	Max 15Mbps
Output	PAL/NTSC
Aspect ratio	4:3, 16:9, Auto
Active pixel	SD: 720x480 @ 30fps; 720x576 @ 25fps
	HD: 480p, 576p, 720i, 720p, 1080i
Output connector	RCA, SCART, HDMI, YPbPr

AUDIO

Decoding	MPEG-4/MPEG-2/MPEG-1 layer I & II
Mode	Mono, Dual, Stereo, Joint stereo
Bit rate	Max 384Kbps

DEMODULATOR

Demodulation	QPSK & 8PSK
Symbol rate	SCPC/MCPC
Outer code	RS (204, 188, 8)
Inner code	ALL DVB rates
Energy dispersion	DVB-S/S2 recommendation

INPUT SIGNAL

Frequency	950MHz ~ 2150MHz
Input level	-65dBm ~ -25dBm
Channel bandwidth	36MHz
Input socked	F-type connector

LNB CONTROL

Power supply	13/18V (500mA max) with short circuit protection
Polarized control	13/18V polarization (vertical/horizontal)
DiSEqC control	DiSEqC1.0, DiSEqC1.1 and DiSEqC1.2

MISCELLANEOUS

Supply voltage	100~240VAC~50/60Hz
Power consumption	Max. 25 watts
Operation temperature	+5° to +40°
Storage temperature	-20° to +70°
Dimension (W * D * H)	310 * 260 * 65 mm
Weight	1.85 Kg